

Title (en)
Indicating instrument having stepping motor

Title (de)
Anzeigeeinstrument mit Schrittmotor

Title (fr)
Instrument à aiguille avec un moteur pas-à-pas

Publication
EP 0756175 B1 20131218 (EN)

Application
EP 96110308 A 19960626

Priority
JP 19208695 A 19950727

Abstract (en)
[origin: EP0756175A1] A zero-position stopper (12a) to stop the pointer (50) when it is returned to the zero position and a maximum-position stopper (12b) to stop the pointer when it is located at the maximum position are provided. A microcomputer generates a zero-start signal when an ignition switch (IG) is turned on so that the pointer moves from the zero position and engages the maximum position stopper, and thereafter generates a zero-return signal so that the pointer returns to the zero-position stopper. When the pointer engages the zero-position stopper (12a), the computer does not generate a control signal. <IMAGE>

IPC 8 full level
G01D 7/00 (2006.01); **G01D 11/00** (2006.01); **G01D 13/22** (2006.01); **G01P 1/08** (2006.01); **G01R 5/16** (2006.01); **G01R 7/06** (2006.01); **G05B 19/23** (2006.01); **H02P 8/00** (2006.01)

CPC (source: EP KR US)
G01R 7/06 (2013.01 - EP US); **G05B 19/232** (2013.01 - EP US); **H02P 21/00** (2013.01 - KR)

Cited by
EP1266383A4; EP0959359A1; EP1569001A3; EP1195610A1; DE102012105775B4; EP2159550A4; CN111426289A; US6211585B1; US6731092B2; US7233255B2

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0756175 A1 19970129; EP 0756175 B1 20131218; JP 3284838 B2 20020520; JP H0942996 A 19970214; KR 100277758 B1 20010201; KR 970008825 A 19970224; US 6014075 A 20000111

DOCDB simple family (application)
EP 96110308 A 19960626; JP 19208695 A 19950727; KR 19960029686 A 19960723; US 66847096 A 19960625